

Notice of Allowability

Application No.

10/788,767

Examiner

James L. Habermehl

Applicant(s)

MELKOTE ET AL.

Art Unit

2651

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to papers filed 27 Feb 04 and 2 Augt 04.
2. ☒ The allowed claim(s) is/are 1-28.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 27 Feb 04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

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1. This Office action is in response to application papers filed 27 February 2004 and 2 August 2004, which papers have been placed of record in the file.

2. Claims 1-28 are allowed over the prior art of record. The following is an examiner's statement of reasons for allowance:

Claims 1 and 15 are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a method for writing servo burst patterns for tracks or defining tracks on a magnetic disk comprising closed-loop writing servo burst patterns using a two-dimensional state compensator that receives position error signals, generates positioning control signals and track-following state variables, and receives track-following state variables, processing and storing the track-following state variables generated while forming the servo burst patterns on one track, and inputting said track-following state variables into the state compensator while writing servo burst patterns on another track, as presented in the environment of claims 1 and 15. It is noted that the closest prior art, Melkote et al., shows using a two-dimensional state compensator similar to the claimed invention.

However, Melkote et al. fails to disclose using a two-dimensional state compensator that receives position error signals, generates positioning control signals and track-following state variables, and receives track-following state variables, processing and storing the track-following state variables generated while forming the servo burst patterns on one track, and inputting said track-following state variables into the state compensator while writing servo burst patterns on another track as claimed.

Claims 8 and 22 are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose an apparatus for writing servo burst patterns for tracks on a magnetic disk comprising means for writing servo burst patterns for tracks or defining tracks on a magnetic disk comprising means for track following using a two-dimensional state compensator that receives position error signals, generates positioning control signals and track-following state variables, and receives track-following state variables, means for processing and storing the track-following state variables generated while forming the servo burst patterns on one track, and means for track following by inputting said track-following state variables into the state compensator while writing servo burst patterns on another track, as described in Figures 1-2 and 6 and specification pp. 8-13. It is noted that the closest prior art, Melkote et al., shows using a two-dimensional state compensator similar to the claimed invention. However, Melkote et al. fails to disclose means for track following using a two-dimensional state compensator that receives position error signals, generates positioning control signals and track-following state variables, and receives track-following state variables, means for processing and storing the track-following state variables generated while forming the servo burst patterns on one track, and means for track following by inputting said track-following state variables into the state compensator while writing servo burst patterns on another track as described in Figures 1-2 and 6 and specification pp. 8-13 and as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Painter, Ono et al., Ottesen et al., Okamura, Hattori, and Workman show modifying state variables for track following similar to applicant's invention.


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James L. Habermehl whose telephone number is (571)272-7556. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (571)272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Habermehl/jlh
26 Sep 05



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